



# National Weather Service

## Storm Data and Unusual Weather Phenomena



March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property		Character of Storm
					Killed	Injured	Crops			

### CONNECTICUT, Northeast

CTZ002>004

**Hartford - Tolland - Windham**

05	1300EST	0	0	5M	Heavy Snow
06	2300EST				

A major winter storm impacted northern Connecticut with heavy snow and strong winds. The slow-moving storm, which tracked south of New England, dumped 10 to 20 inches of snow across Hartford, Tolland, and Windham counties and knocked out power to tens of thousands of customers. Schools and businesses were shut down for three days in some communities.

Officially, Bradley International Airport in Windsor Locks reported a storm total of 9.9 inches. Other reports from Hartford County include 15 inches in Farmington, 14 inches in East Windsor, Burlington, and Wethersfield, 13 inches in Glastonbury, and 12 inches in Manchester. In Tolland County, 16 inches of snow fell in Stafford, 15 inches in Tolland, 14 inches in Vernon, and 11 inches in Mansfield. In Windham County, East Killingly reported 15 inches, Andover 13 inches, and Putnam, Willimantic, and Pomfret all had 12 inches of snow.

CTZ002>004

**Hartford - Tolland - Windham**

09	1500EST	0	0	2M	Heavy Snow
10	0800EST				

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to much of northern Connecticut. The highest snowfall totals were found in the higher elevations of Hartford County, where around one foot of snow fell. Other areas received between 5 and 10 inches of snow.

**Hartford County**  
**Southington**

22	0430EST	0	0		Flood
23	0600EST				

Quinnipiac River at Southington

The combination of melting snow and heavy rain brought the Quinnipiac River into flood. It crested at 4.6 feet at 3 pm on the 22nd (flood stage is 3.5 feet). Several roadways near the river were closed by flood waters, but no damage was reported.

**Hartford County**  
**Southington**

30	1400EST	0	0		Flood
31	1100EST				

Quinnipiac River

Renewed flooding occurred on the Quinnipiac River. Flows remained well above normal after the previous week's flooding, and a storm system brought 2 to 3 inches of rain to Hartford County. The river crested at 4.4 feet at 10 pm on the 20th (flood stage is 3.5 feet). There were no reports of flood damage.

### MASSACHUSETTS, Central and East

MAZ007-015>016-019-  
022>024

**Eastern Essex - Suffolk - Eastern Norfolk - Eastern Plymouth - Barnstable - Dukes - Nantucket**

05	0800EST	0	0	15M	Coastal Flooding
06	1100EST				

MAZ020>022-024

**Southern Bristol - Southern Plymouth - Barnstable - Nantucket**

05	1200EST	0	0		High Wind (G50)
06	2100EST				

MAZ002>019

**Western Franklin - Eastern Franklin - Northern Worcester - Western Middlesex - Western Essex - Eastern Essex - Western Hampshire - Western Hampden - Eastern Hampshire - Eastern Hampden - Southern Worcester - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth**

05	1300EST	0	0		Heavy Snow
06	2300EST				

A major winter storm impacted the Bay State with near blizzard conditions, high winds, and coastal flooding. The slow-moving storm, which tracked south of New England, dumped over two feet of snow across the interior, knocked out power to about 80,000 customers, and shut down businesses and schools for several days. There were also many reports of downed trees and wires during



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### MASSACHUSETTS, Central and East

the height of the storm, along with reports of lightning and thunder. Hundreds of flights at Logan International Airport were canceled, as were flights at other nearby airports. In magnitude, it was the worst storm to affect the state since 1992, and a state of emergency was in effect for three days. After the storm, the weight of the heavy wet snow caused several roof collapses throughout the state, most notably at a church in Westford. No injuries were reported. Damage from this storm was estimated to be in the tens of millions of dollars.

The highest snowfall totals were reported from the east slopes of the Berkshires across Worcester County and into northeast Massachusetts, where amounts of 15 to 30 inches were common. Greater Boston received between 12 and 22 inches of snow, but Logan International Airport received 9.8 inches from this storm. Amounts in southeast Massachusetts ranged from 2 to 4 inches along the immediate coast to as much as a foot farther inland. Other official totals include 23 inches at the Blue Hills Observatory in Milton, 22 inches at Worcester Airport, and 9.5 inches at the National Weather Service in Taunton.

Powerful northeast winds affected much of east coastal and southeast Massachusetts. Speeds of 50 to 60 mph were widely observed and caused damage to trees and power lines, especially on Cape Cod and the islands. Some unofficial gusts reported by spotters include 64 mph in Wareham, 61 mph in Fairhaven, and 60 mph at Nauset Beach in Orleans. At Chatham Municipal Airport, winds gusted to 63 mph.

High tides during the storm ran 2 to 3 feet above normal, resulting in widespread coastal flooding along the entire east facing coastline, including Cape Cod and the islands. The strong surf slammed sea walls and flooded beachfront homes and roadways, and damaged a part of the sea wall in Winthrop. In Marblehead, Ocean Avenue and Front Street were flooded, as was Nahant Road in Nahant. In Winthrop, Winthrop Shore Drive, Shirley Avenue, and Moore and Charles Streets were flooded. Flood waters also impacted the Jamaicaway in Boston and Quincy Shore Drive in Quincy. In Hull, flooding affected Gun Rock, Atlantic, and Nantasket Avenues while in Scituate, flooding affected Turner and Jericho Roads as well as 5th, 6th, and 7th Avenues. In its wake, the flooding left behind piles of seaweed, pieces of deck and lawn furniture, and even lobsters and fish.

MAZ002>014

**Western Franklin - Eastern Franklin - Northern Worcester - Western Middlesex - Western Essex - Eastern Essex - Western Hampshire - Western Hampden - Eastern Hampshire - Eastern Hampden - Southern Worcester - Western Norfolk - Southeast Middlesex**

09	1500EST	0	0	3M	Heavy Snow
10	0800EST				

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to much of interior Massachusetts. The highest snowfall totals were found in the higher elevations of central and northeast Massachusetts, where around one foot of snow fell. Other areas, including Greater Boston, received 4 to 8 inches of snow on average

MAZ005-005-005-005- Western Middlesex - Southern Worcester - Western Norfolk  
012>013-013

22	0600EST	0	0		Flood
31	2359EST				

Sudbury River at Saxonville

#### Middlesex County

Waltham to Winchester	22	1022EST	0	0	Flood
	25	0115EST			

#### Norfolk County

Weymouth	22	1108EST	0	0	Flood
	23	0308EST			

#### Essex County

Methuen to Ipswich	22	1815EST	0	0	10M	Flood
	28	2100EST				

#### Bristol County

Norton	22	2245EST	0	0	Flood	
	23	1215EST				

Widespread flooding occurred on rivers and streams in eastern Massachusetts as a result of melting snow and heavy rainfall. The most severe flooding occurred in the Merrimack Valley, where flood damage was estimated at ten million dollars. Federal assistance was made available for residents of Essex, Middlesex, Suffolk, Norfolk, Bristol, and Plymouth Counties.

Record flooding occurred on the Aberjona River in Winchester, where the crest of 16.80 feet exceeded the crest of 16.78 feet which



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### MASSACHUSETTS, Central and East

occurred on October 21, 1996. This was the worst flooding to strike the Merrimack Valley since the October, 1996 flood and was comparable in magnitude. In the Charles and Neponset basins, flooding was similar to the June, 1998 flood, though the severity of urban flooding was much less.

The Nashua River at East Pepperell crested at 9.5 feet at 545 pm on the 24th (flood stage is 8 feet). The Concord River at Lowell crested at 8.94 feet at 115 am on the 26th (flood stage is 8 feet). The Assabet River at Maynard crested at 6.41 feet at 11am on the 23rd (flood stage is 5 feet). The Shawshen River at Wilmington crested at 9.87 feet at 10 am on the 23rd (flood stage is 7 feet). The Sudbury River at Saxonville crested at 12.61 feet at 715 am on the 23rd (flood stage is 10 feet). The Blackstone River at Northbridge crested at 9.22 feet at 530 pm on the 22nd (flood stage is 9 feet). The Charles River at Dover crested at 6.97 feet at 11 pm on the 25th (flood stage is 5 feet). The Neponset River at Norwood crested at an estimated 10.2 feet at 11 pm on the 22nd (flood stage is 9 feet).

MAZ013-016>022

**Western Norfolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable**

<b>26</b>	<b>1600EST</b>	<b>0</b>	<b>0</b>	<b>250K</b>	<b>Heavy Snow</b>
<b>27</b>	<b>0300EST</b>				

A small but fast moving storm brought heavy snow to southeast Massachusetts, as it moved off the coast south of Long Island. Snowfall totals of 5 to 10 inches were widely reported from the southern suburbs of Boston to Cape Cod. As much as 10.6 inches of snow fell in Fairhaven.

Middlesex County

Waltham

<b>30</b>	<b>1315EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
<b>31</b>	<b>1715EST</b>				

Charles River at Waltham

MAZ007-016-022-024

**Eastern Essex - Eastern Norfolk - Barnstable - Nantucket**

<b>30</b>	<b>1400EST</b>	<b>0</b>	<b>0</b>		<b>Strong Wind</b>
<b>31</b>	<b>0200EST</b>				

MAZ015

**Suffolk**

<b>30</b>	<b>1601EST</b>	<b>0</b>	<b>0</b>		<b>High Wind (G50)</b>
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Barnstable County

Sandwich

<b>30</b>	<b>2200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
<b>31</b>	<b>1400EST</b>				

Bristol County

Fairhaven

<b>30</b>	<b>2200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
<b>31</b>	<b>1400EST</b>				

MAZ002>006-008

**Western Franklin - Eastern Franklin - Northern Worcester - Western Middlesex - Western Essex - Western Hampshire**

<b>30</b>	<b>2200EST</b>	<b>0</b>	<b>0</b>	<b>8M</b>	<b>Heavy Snow</b>
<b>31</b>	<b>1400EST</b>				

Norfolk County

Randolph

<b>30</b>	<b>2200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
<b>31</b>	<b>1400EST</b>				

Plymouth County

Plymouth

<b>30</b>	<b>2200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
<b>31</b>	<b>1400EST</b>				

MAZ005

**Western Middlesex**

<b>31</b>	<b>0000EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
	<b>2359EST</b>				

Assabet River at Maynard

Bristol County

Norton to  
South Dartmouth

<b>31</b>	<b>0615EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
	<b>2359EST</b>				

Wading River at Norton and Paskamanset River at S Dartmouth

A storm system brought heavy snow to portions of interior Massachusetts, heavy rain and strong winds closer to the coast, and renewed flooding on some rivers and streams in eastern Massachusetts.

Snowfall accumulations were confined to the higher terrain of western, central, and northeast Massachusetts where around one foot of snow fell. As much as 15 inches fell in Ashburnham, 12 inches in Leyden and Shelburne, and 11 inches in Shirley. The lower



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### MASSACHUSETTS, Central and East

elevations reported snowfall totals between 3 and 6 inches on average. In general, accumulating snows fell along and outside of the Interstate 495 corridor.

Strong northeast winds buffeted the coast, averaging between 40 and 50 mph over land. Logan International Airport in Boston reported a sustained 40 mph wind around 5 pm. In Massachusetts Bay, a Boston pilot boat reported winds of 50 to 55 knots with a gust to 65 knots around 6 pm. Seas were in excess of 20 feet at that time.

Heavy rain fell across much of southeast Massachusetts, where many places in Norfolk, Bristol, Plymouth, and Barnstable Counties reported rainfall totals of 3 to 5 inches. As much as 6.21 inches of rain fell in Fairhaven, 5.74 inches in New Bedford, 4.25 inches in Sandwich, and 3.65 inches in Plymouth.

The heavy rain caused renewed minor flooding on some rivers in eastern Massachusetts, primarily since river flows were still high after the flooding from the past week. The most serious flooding occurred on the Paskamanset River in South Dartmouth, where several roads were closed by flood waters. The river crested at 14.31 feet at 1230 pm on the 31st (flood stage is 14 feet)

### NEW HAMPSHIRE, Southern

NHZ011>012

Cheshire - Hillsborough

05 1300EST  
06 2300EST

0 0 5M Heavy Snow

A major winter storm impacted southwest New Hampshire with near blizzard conditions. The slow-moving storm, which tracked south of New England, dumped over two feet of snow across Cheshire and Hillsborough Counties and knocked out power to tens of thousands of customers. Businesses and schools were shut down for several days in some communities. After the storm, the weight of the heavy wet snow caused several roof collapses of homes and businesses.

As much as 30 inches of snow fell in Jaffrey. Other snowfall totals reported include 29 inches in Swanzey, 27 inches in Westmoreland, 25 inches in Keene and Frankestown, 24 inches in Pelham, Hudson and Nashua, 22 inches in Rindge, and 21 inches in Manchester.

NHZ011>012

Cheshire - Hillsborough

09 1500EST  
10 0800EST

0 0 500K Heavy Snow

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to much of southwest New Hampshire. The highest snowfall totals were found in the higher terrain, where around one foot of snow fell. Other areas received 4 to 8 inches of snow on average.

NHZ011>012

Cheshire - Hillsborough

30 2200EST  
31 1400EST

0 0 200K Heavy Snow

A storm system brought heavy snow to Cheshire and Hillsborough Counties. The highest snowfall totals were found in the higher terrain, where over a foot of snow accumulated, and as much as 19 inches of snow fell in Jaffrey. Rindge and Greenfield reported 16 inches, Marlow and Frankestown had 14 inches of snow, and Weare 11 inches. The lower elevations reported totals of 5 to 8 inches on average.

### RHODE ISLAND

RIZ001>004

Northwest Providence - Southeast Providence - Western Kent - Eastern Kent

05 1300EST  
06 2300EST

0 0 10M Heavy Snow

A major winter storm impacted central and northern Rhode Island with heavy snow and strong winds. The slow-moving storm, which tracked south of New England, dumped more than a foot of snow across Providence and Kent counties and knocked out power to tens of thousands of customers. Schools and businesses were shut down for three days in some communities.



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### RHODE ISLAND

Officially, T.F. Green State Airport in Warwick reported a storm total of 6.5 inches. Other areas of Kent County reported 6 to 10 inches of snow from the storm. In Providence County, as much as 16 inches of snow fell in North Foster. Burrillville and Lincoln both reported totals of 14 inches, North Smithfield 13 inches, and Cumberland, Johnston, and Woonsocket had 10 inches of snow.

#### **RIZ001**

##### **Northwest Providence**

09	1500EST	0	0	500K	Heavy Snow
10	0800EST				

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to northern Providence County. The highest snowfall totals were found in the higher elevations, where 6 to 8 inches of snow fell

#### **Providence County**

##### **Cranston**

22	0630EST	0	0		Flood
23	2215EST				

Pawtuxet River at Cranston

#### **RIZ001**

##### **Northwest Providence**

22	1201EST	0	0	3M	Flood
24	0409EST				

Blackstone River at Woonsocket

Minor to moderate flooding occurred along the Blackstone and Pawtuxet Rivers as a result of melting snow and heavy rainfall. Damage was estimated at three million dollars, and affected nearly 1,400 homes and 37 businesses.

The Blackstone River at Woonsocket crested at 11.65 feet at 225 am on the 23rd (flood stage is 9 feet). The Pawtuxet River at Cranston crested at 11.36 feet at 615 pm on the 22nd (flood stage is 9 feet).

#### **RIZ007**

##### **Newport**

26	1600EST	0	0	100K	Heavy Snow
27	0300EST				

A small but fast moving storm brought heavy snow to Newport County, as it moved off the coast south of Long Island. Snowfall totals of 5 to 7 inches were widely reported

#### **Providence County**

##### **Cranston**

30	1443EST	0	0		Flood
31	2359EST				

Pawtuxet River at Cranston

#### **Bristol County**

##### **Bristol**

30	2200EST	0	0		Heavy Rain
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#### **Kent County**

##### **Warwick**

30	2200EST	0	0		Heavy Rain
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#### **Newport County**

##### **Middletown**

30	2200EST	0	0		Heavy Rain
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#### **Providence County**

##### **Providence**

30	2200EST	0	0		Heavy Rain
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#### **Washington County**

##### **Block Is**

30	2200EST	0	0		Heavy Rain
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#### **RIZ001**

##### **Northwest Providence**

31	0000EST	0	0		Flood
	1944EST				

Blackstone River at Woonsocket

A storm system brought heavy rain and renewed flooding to much of Rhode Island. Rainfall totals averaged between 3 and 4 inches throughout the state, with as much as 4.37 inches on Block Island, 4.25 inches in Middletown, 3.14 inches in Warwick, and 3.00 inches in Providence.

Minor flooding occurred on some rivers, as flows remained high from the previous week's flooding. The Blackstone River at



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### RHODE ISLAND

Woonsocket crested at 10.21 feet at 10 am on the 31st (flood stage is 10 feet), and the Pawtuxet River at Cranston crested at 11.86 feet at 715 pm on the 31st (flood stage is 9 feet).